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**From:** Werner, Lora [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=921F9F156035403FA605C142A287CC1A-LWERNE02]  
**Sent:** 10/24/2017 4:27:32 PM  
**To:** ibd7@cdc.gov; Helverson, Robert [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e96005a319744540a11a1aed352395d1-Rhelvers]; Markiewicz, Karl [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a9af7eaacbc41d8a469eb1f11183ad6-Kmarkiew]  
**Subject:** quick thoughts on Ames Warehouse fire from Lora - edit away!!

Acrolein, formaldehyde, HCl, hydrogen cyanide, NO, NO<sub>2</sub> – all non detect (any concerns on DLs?)  
SO<sub>2</sub> – 6 detects out of 20; DL .01 ppm/10 ppb; max 500 ppb (ATSDR acute MRL 10 ppb)  
CO – 1 detect out of 59; 14 ppm; EPA 8 hour/1 x per year 9 ppm, OSHA 50 ppm 8 hour/40 week  
VOCs – 1 detect out of 62; DL 0.1 ppm; Detect listed at .5 ppm/500 ppb and downwind of incident at Parkersburg Delivery with a moderate plastic odor at time– not sure what to say about this one?  
PM – focused on PM<sub>2.5</sub>, 88 detects out of 88; 0.078 mg/m<sup>3</sup> average, 2.810 mg/m<sup>3</sup> max; or 78 avg and 2810 max in ug/m<sup>3</sup> – average levels are in the moderate AQI category, max value much higher than hazardous category – need to parse out more. Seems that there were higher values initially; max value on 10/23 at 19:38 at Parkersburg Delivery location 0.32 miles from the site and recorded as downwind; sustained above 2 mg/m<sup>3</sup> for over 5 min, so that was a hazardous time.

Some high values at car wash 1.5 miles from site; not site related?